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PROCUREMENT SECTION
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WATER SUPPLY OUTLOOK FOR OREGON

Prepared by

U. S. DEPARTMENT of AGRICULTURE ★ SOIL CONSERVATION SERVICE

Collaborating with

OREGON STATE UNIVERSITY

and

STATE ENGINEER of OREGON

Data included in this report were obtained by the agencies named above in cooperation with other Federal, State and private organizations.

AS OF
JUNE 1, 1972

TO RECIPIENTS OF WATER SUPPLY OUTLOOK REPORTS:

Most of the usable water in western states originates as mountain snowfall. This snowfall accumulates during the winter and spring, several months before the snow melts and appears as streamflow. Since the runoff from precipitation as snow is delayed, estimates of snowmelt runoff can be made well in advance of its occurrence. Streamflow forecasts published in this report are based principally on measurement of the water equivalent of the mountain snowpack.

Forecasts become more accurate as more of the data affecting runoff are measured. All forecasts assume that climatic factors during the remainder of the snow accumulation and melt season will interact with a resultant average effect on runoff. Early season forecasts are therefore subject to a greater change than those made on later dates.

The snow course measurement is obtained by sampling snow depth and water equivalent at surveyed and marked locations in mountain areas. A total of about ten samples are taken at each location. The average of these are reported as snow depth and water equivalent. These measurements are repeated in the same location near the same dates each year.

Snow surveys are made monthly or semi-monthly from January 1 through June 1 in most states. There are about 1900 snow courses in Western United States and in the Columbia Basin in British Columbia. Networks of automatic snow water equivalent and related data sensing devices, along with radio telemetry are expanding and will provide a continuous record of snow water and other parameters of key locations.

Detailed data on snow course and soil moisture measurements are presented in state and local reports. Other data on reservoir storage, summaries of precipitation, current streamflow, and soil moisture conditions at valley elevations are also included. The report for Western United States presents a broad picture of water supply outlook conditions, including selected streamflow forecasts, summary of snow accumulation to date, and storage in larger reservoirs.

Snow survey and soil moisture data for the period of record are published by the Soil Conservation Service by states about every five years. Data for the current year is summarized in a West-wide basic data summary and published about October 1 of each year.

COVER PHOTO NUMBER *ORC 221-3*

PUBLISHED BY SOIL CONSERVATION SERVICE

The Soil Conservation Service publishes reports following the principal snow survey dates from January 1 through June 1 in cooperation with state water administrators, agricultural experiment stations and others. Copies of the reports for Western United States and all state reports may be obtained from Soil Conservation Service, Western Regional Technical Service Center, Room 209, 701 N. W. Glisan, Portland, Oregon 97209.

Copies of state and local reports may also be obtained from state offices of the Soil Conservation Service in the following states:

STATE	ADDRESS
Alaska	P. O. Box "F", Palmer, Alaska 99645
Arizona	6029 Federal Building, Phoenix, Arizona 85025
Colorado (N. Mex.)	P. O. Box 17107, Denver, Colorado 80217
Idaho	Room 345, 304 N. 8th. St., Boise, Idaho 83702
Montana	P. O. Box 970, Bozeman, Montana 59715
Nevada	P. O. Box 4850, Reno Nevada 89505
Oregon	1218 S. W. Washington St., Portland, Oregon 97205
Utah	4012 Federal Bldg., 125 South State St., Salt Lake City, Utah 84111
Washington	360 U.S. Court House, Spokane, Washington 99201
Wyoming	P. O. Box 2440, Casper, Wyoming 82601

PUBLISHED BY OTHER AGENCIES

Water Supply Outlook reports prepared by other agencies include a report for California by the Water Supply Forecast and Snow Surveys Unit, California Department of Water Resources, P. O. Box 388, Sacramento, California 95802 --- and for British Columbia by the Department of Lands, Forests and Water Resources, Water Resources Service, Parliament Building, Victoria, British Columbia



WATER SUPPLY OUTLOOK FOR OREGON

and
FEDERAL - STATE - PRIVATE COOPERATIVE SNOW SURVEYS

Issued

JUNE 8, 1972

Issued by

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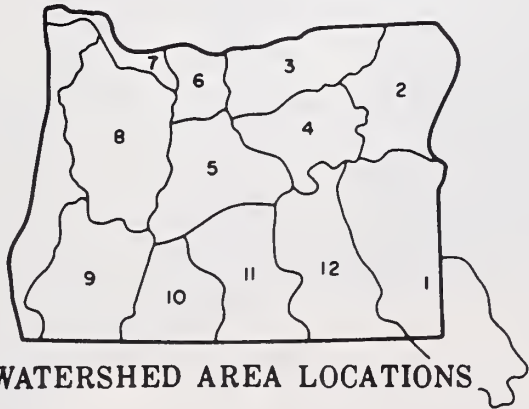
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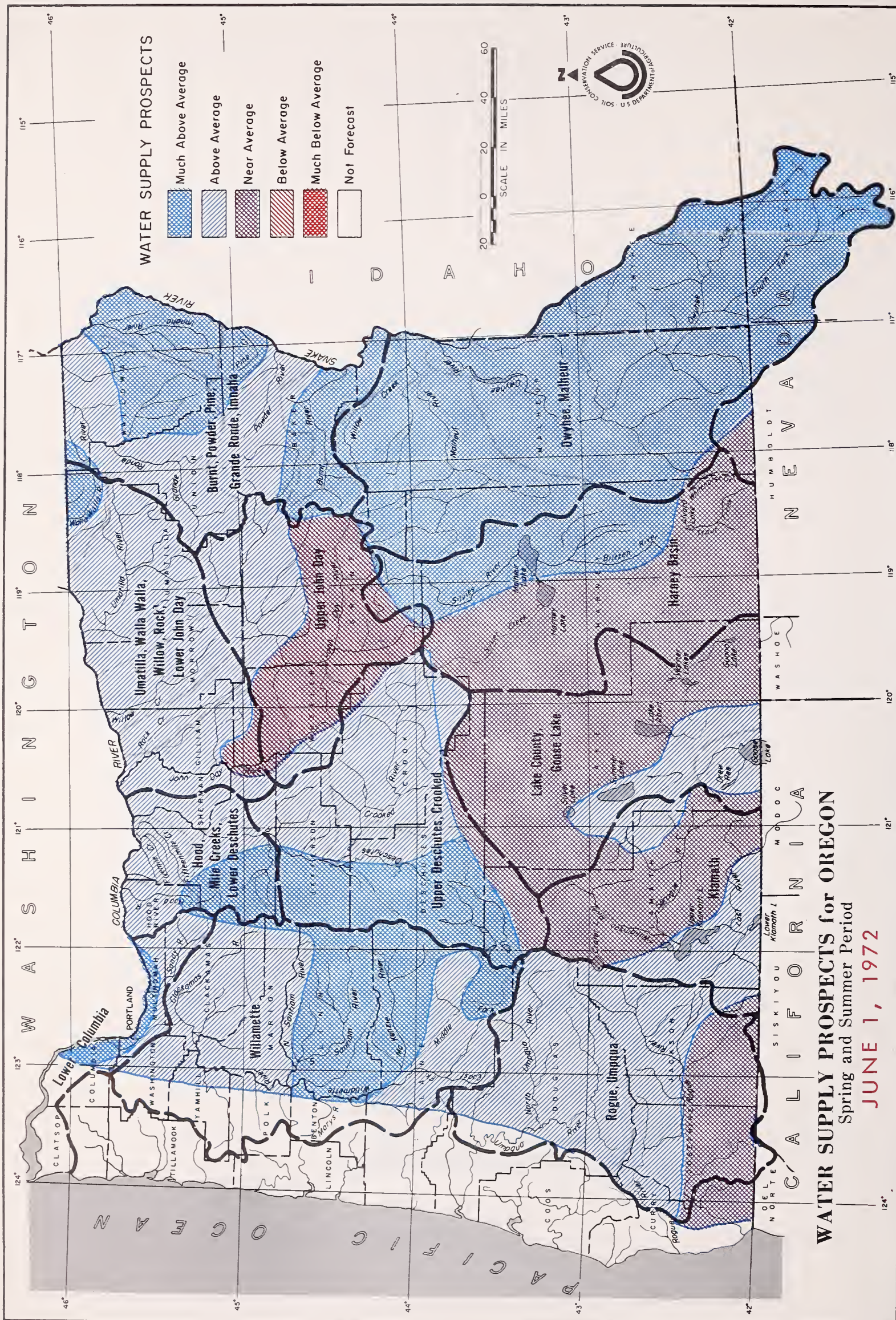
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WATER SUPPLY OUTLOOK for OREGON

JUNE 1, 1972

The water supply outlook for Oregon is average to excellent over the state. The snowpack is $1\frac{1}{2}$ to 2 times the average at higher elevations. Major irrigation reservoirs are full. Streamflow during May was above average for all the major drainages.

SNOW COVER

The June 1 snowpack was $1\frac{1}{2}$ to 2 times normal at the higher elevations over the state. Warm temperatures during the latter part of May depleted the remaining midelevation snowpack.

PRECIPITATION

Rainfall during May was average in the Willamette Valley and northeastern Oregon, below average in the southwest, and much below average in the southeastern part of the state.

RESERVOIR STORAGE

Twenty-four major irrigation reservoirs are currently holding 2,926,200 acre feet of water, which is 96 percent of the capacity and 124 percent of the normal amount for June first. The amount of water carried over for use next season should be above average for most reservoirs.

STREAMFLOW

Streamflow during May was above normal during May as warm temperatures during the latter part of the month caused snowmelt runoff. Generally, streams over the state are expected to produce near normal to above normal amounts of water during the season. If the present warm weather continues, some shortages could occur during August and September for water users who depend on direct diversions of natural flow.

continued on next page

continued --

Representative revision of May-September forecasts are as follows:

<u>NAME</u>	<u>FORECAST</u> <u>% of 1953-67 Average</u>
Owyhee Net Inflow	117
Umatilla at Pendleton	115
Grande Ronde at La Grande	128
Mid. Fork Willamette at Oakridge	123
Rogue at Raygold	110
Upper Klamath Lake net Inflow	110

This report contains data furnished by the Oregon State Engineer, U. S. Geological Survey, NOAA National Weather Service, and other cooperators.



JUNE 1, 1972

STREAMFLOW FORECASTS

STREAMFLOW FORECASTS	THIS YEAR			PAST RECORD	
BASIN, STREAM and/or FORECAST POINT	FORECAST		FORECAST PERIOD	THOUSAND ACRE FEET	
	Thousand Acre Feet	Percent of Average		Last Year	Average ⁱ
OWYHEE, MALHEUR WATERSHEDS					
Bully Creek at Warm Springs	15.6	137	March-May		11.4
Jordan Creek above Lone Tree Creek	60	125	May-July		48
Malheur near Drewsey	36	109	May-July	59	33
	38	112	May-Sept.	61	34
Malheur, North Fork at Beulah ^d	36	109	May-July		33
	41	108	May-Sept.		38
Owyhee Reservoir net Inflow ^k	190	119	May-July	251	160
	210	117	May-Sept.	277	179
BURNT, POWDER, PINE, GRANDE RONDE, IMNAHA WATERSHEDS					
Bear near Wallowa	70	125	May-Sept.	76	57
Burnt near Hereford ^d	19.5	136	May-July	27	14.3
	20.7	134	May-Sept.	29	15.5
Catherine near Union	64	123	May-Sept.	72	52
Eagle Creek above Skull Creek	185	129	May-July	220	143
	200	128	May-Sept.	240	156
Grande Ronde at La Grande	130	129	May-July	122	101
	134	128	May-Sept.	126	105
Hurricane Creek near Joseph	55	122	May-Sept.	58	45
Imnaha at Imnaha	275	122	May-Sept.	380	225
Lostine near Lostine	145	125	May-Sept.	151	116
Powder River near Sumpster	43	102	May-July		42
	45	102	May-Sept.		44
Wallowa, East Fork near Joseph ^d	12.4	142	May-July		8.7
	14.8	132	May-Sept.		11.2
UMATILLA, WALLA WALLA, WILLOW, ROCK, LOWER JOHN DAY WATERSHEDS					
Birch Creek at Rieth	10.8	122	May-July	6.4	8.9
Butter Creek near Pine City	4.4	110	May-July	3.8	4.0
McKay near Pilot Rock	10.6	96	May-Sept.		11.0
Umatilla River near Gibbon	46	110	May-July	48	42
	53	110	May-Sept.	54	48
Umatilla River at Pendleton	87	116	May-July	83	75
	92	115	May-Sept.	88	80
Walla Walla, No. Fork near Milton	10.2	124	May-July	10.3	8.2
	11.2	129	May-Sept.	11.3	8.7
Walla Walla, So. Fork near Milton	48	126	May-July	52	38
	63	126	May-Sept.	68	50
UPPER JOHN DAY WATERSHEDS					
Camas Creek near Ukiah	19.5	100	May-July		19.5
	20.1	100	May-Sept.		20.1
John Day at Prairie City	30	100	May-July		30
	34	100	May-Sept.		34
John Day, Middle Fork at Ritter	74	106	May-July	85	70
	77	104	May-Sept.	88	74
John Day, North Fork at Monument	345	95	May-July		362
	360	96	May-Sept.		377
Strawberry near Prairie City	8.4	117	May-July	8.7	7.2
	9.1	115	May-Sept.	9.6	7.9

JUNE 1, 1972

STREAMFLOW FORECASTS

STREAMFLOW FORECASTS		THIS YEAR		PAST RECORD	
BASIN, STREAM and/or FORECAST POINT	FORECAST		FORECAST PERIOD	THOUSAND ACRE FEET	
	Thousand Acre Feet	Percent of Average		Last Year	Average ²
UPPER DESCHUTES, CROOKED WATERSHEDS					
Beaver Creek near Paulina	7.6	113	May-July		6.7
	7.9	113	May-Sept.		7.0
Crane Prairie Reservoir total Inflow	89	131	May-July		68
	140	126	May-Sept.		111
Crescent at Crescent Lake ^d	26	140	May-July	26	18.5
	32	133	May-Sept.	32	24
Crooked near Post	32	84	May-July		38
	34	85	May-Sept.		40
Deschutes at Benham Falls ^d	366	120	May-July		305
	577	113	May-Sept.		509
Deschutes below Snow Creek	82	139	May-Sept.		59
Deschutes, Little near LaPine ^d	72	118	May-July	102	61
	84	115	May-Sept.	118	73
Ochoco Reservoir net Inflow	17.0	140	May-Sept.		12.1
Odell near Crescent	34	135	May-Sept.		25
Squaw near Sisters	53	113	May-Sept.	66	47
Tumalo near Bend ^d	53	123	May-Sept.		43
HOOD, MILE CREEKS, LOWER DESCHUTES WATERSHEDS					
Hood near Tucker Bridge	230	122	May-July		189
	293	121	May-Sept.		243
Hood, West Fork near Dee	105	117	May-July		90
	133	119	May-Sept.		112
White below Tygh Valley	143	166	May-July		86
	160	156	May-Sept.		103
LOWER COLUMBIA WATERSHEDS					
Columbia at The Dalles ^d	80,600	135	May-June	74,220	59,688
	118,500	128	May-Sept.	108,712	92,457
Sandy River near Marmot	289	121	May-July		239
	345	118	May-Sept.		293
WILLAMETTE WATERSHEDS					
Clackamas at Estacada	523	115	May-July	726	455
	566	115	May-Sept.	864	566
Clackamas above Three Lynx	445	128	May-July	569	348
	547	124	May-Sept.	690	442
McKenzie at McKenzie Bridge	430	127	May-July		338
	609	125	May-Sept.		487
McKenzie near Vida	1013	134	May-July		754
	1293	131	May-Sept.		989
McKenzie, So. Fork near Rainbow	203	137	May-July		148
	243	137	May-Sept.		178
Oak Grove Fork above Power Intake	105	117	May-July	144	90
	146	114	May-Sept.	190	128
Row near Dorena	72	124	May-July		58
	77	124	May-Sept.		62
Santiam, North at Mehama ^d	634	124	May-July		513
	738	120	May-Sept.		614
Santiam, South at Waterloo	468	138	May-July		337
	506	135	May-Sept.		375
Willamette, Mid. Fk. blw. N. Fk. nr. Oakridge ^d	625	128	May-July	671	490
	728	123	May-Sept.	798	593
Willamette, No. Fk. of Mid. Fk. near Oakridge	157	125	May-July		126
	176	120	May-Sept.		147
Willamette at Salem ^d	3390	122	May-July		2783
	3950	120	May-Sept.		3286

JUNE 1, 1972

STREAMFLOW FORECASTS

STREAMFLOW FORECASTS		THIS YEAR		PAST RECORD	
BASIN, STREAM and/or FORECAST POINT	FORECAST		FORECAST PERIOD	THOUSAND ACRE FEET	
	Thousand Acre Feet	Percent of Average		Last Year	Average ⁱ
ROGUE, UMPQUA WATERSHEDS					
Applegate near Copper	75	90	May-July		83
	81	90	May-Sept.		90
Clearwater above Trap Creek ^d	76	126	May-Sept.		60
Fourmile Lake net Inflow	4.0	137	May-July		2.9
	4.1	141	May-Sept.		2.9
Hyatt Reservoir net Inflow ^d	1.5	62	May-July		2.4
Illinois River near Kerby	89	95	May-July		93
	95	96	May-Sept.		99
Little Butte, N. Fk. at Fish Lake nr. Lake Cr. ^d	12.0	98	May-Sept.	20	12.3
Little Butte, S. Fk. near Lake Creek	18.2	95	May-July	30	19.2
	21	95	May-Sept.	33	22
Rogue above Prospect	211	110	May-July		192
	273	110	May-Sept.		249
Rogue, South Fork near Prospect ^d	51	110	May-July		46
	63	110	May-Sept.		57
Rogue at Raygold near Central Point	570	109	May-July	768	525
	753	110	May-Sept.	961	685
Rogue at Grants Pass	629	95	May-Sept.		662
Umpqua, No. blw. Lemolo Res. nr. Toketee Falls ^d	164	111	May-Sept.		147
KLAMATH WATERSHEDS					
Clear Lake Reservoir Inflow	11.7	78	May-Sept.		15.1
Gerber Reservoir Inflow	3.7	74	May-Sept.		5.0
Sprague near Chiloquin	190	92	May-Sept.		208
Upper Klamath Lake net Inflow ^k	419	100	May-Sept.	563	419
Williamson below Sprague River	320	97	May-Sept.		331
LAKE COUNTY, GOOSE LAKE WATERSHEDS					
Chewaucan near Paisley	60	103	May-July	124	58
	62	100	May-Sept.	129	62
Deep above Adel	48	114	May-July	99	42
	50	112	May-Sept.	102	44
Drews Reservoir net Inflow ^d	9.0	80	May-July		11.3
Honey near Plush	11.0	105	May-July	30	10.5
	11.2	105	May-Sept.	30	10.7
Silver Creek near Silver Lake	12.1	100	May-July	21	12.1
	14.0	100	May-Sept.	24	14.0
Twentymile near Adel	13.0	135	May-July		9.6
	13.3	133	May-Sept.		10.0
HARNEY BASIN WATERSHEDS					
Donner und Blitzen near Frenchglen	48	120	May-July	53	40
	55	122	May-Sept.	59	45
Silver near Riley	6.3	94	May-July	6.4	6.7
Silvies near Burns	42	108	May-July	56	39
	47	115	May-Sept.	58	41
Trout near Denio	4.4	80	May-July	11.7	5.5
	4.8	80	May-Sept.	12.4	6.0

(a) Assuming normal meteorological conditions. (b) No report. (c) Not scheduled. (d) Corrected to natural flow. (e) Aerial snow depth gage, water content estimated. (f) Nearest current data. (g) Partly estimated. (h) 1953-67 adjusted average. (i) 1953-67, 15 year average. (j) Telephonic report - data not confirmed. (k) Data from PP&L Co. or USBK records. (m) Average for 5 or more years in base period.

JUNE 1, 1972

RESERVOIR STORAGE (Thousand Ac. Ft.)

END OF MONTH

RESERVOIR	Usable Capacity	Usable Storage		
		This Year	Last Year	Average †
OWYHEE, MALHEUR WATERSHEDS				
Antelope	70.0	6	70.0	37.3
Beulah Reservoir	60.0	52.5	60.1	48.8
Bully Creek	30.0	22.5	25.8	18.6
Owyhee	715.0	713.5	712.6	517.0
Warm Springs	191.0	180.2	188.4	131.9
BURNT, POWDER, PINE, GRANDE RONDE, IMNAHA WATERSHEDS				
Phillips Lake	73.5	71.3	82.2	- -
Thief Valley	17.4	17.4	17.4	- -
Unity	25.2	24.7	24.7	27.3
Wallowa Lake	37.5	22.4	30.0	30.6
UMATILLA, WALLA WALLA, WILLOW, ROCK LOWER JOHN DAY WATERSHEDS				
Cold Springs	50.0	50.0	49.7	48.0
McKay	73.8	67.8	64.9	62.1
UPPER DESCHUTES, CROOKED WATERSHEDS				
Crane Prairie	55.3	55.5	48.6	42.4
Crescent Lake	86.9	89.8	60.3	51.9
Ochoco	47.5	46.4	45.2	37.9
Prineville	153.0	153.5	152.7	146.8
Wickiup	200.0	192.3	188.3	172.0
HOOD, MILE CREEKS, LOWER DESCHUTES WATERSHEDS				
Clear Lake (Wasco)	11.9	12.7	8.4	4.8
WILLAMETTE WATERSHEDS				
Blue River	85.6*	80.8	79.1	- -
Cottage Grove	30.0*	28.8	28.8	27.6
Cougar	155.2*	146.5	145.4	- -
Detroit	299.9*	291.2	288.6	268.9
Dorena	70.5*	65.2	66.6	63.6
Fall Creek	115.0*	113.6	109.7	- -
Fern Ridge	94.2*	94.7	95.7	89.8
Foster	30.0*	25.3	23.6	- -
Green Peter	270.0*	250.1	247.6	- -
Hills Creek	200.0*	194.3	191.4	187.6
Lookout Point	337.2*	323.9	319.8	327.4
Timothy Lake	61.7	61.5	61.6	59.4
*Multiple purpose reservoir--space reserved primarily for flood runoff.				
ROGUE, UMPQUA WATERSHEDS				
Emigrant Lake	39.0	35.9	36.4	35.6*
Fish Lake	8.0	8.1	8.1	6.9
Fourmile Lake	16.1	14.7	13.2	13.0
Howard Prairie	60.0	60.6	60.6	44.6
Hyatt Prairie	16.1	15.7	16.0	15.2
*Average for years of record (in base period) after reconstruction.				

RESERVOIR STORAGE (Thousand Ac. Ft.)

END OF MONTH

RESERVOIR	Usable Capacity	Usable Storage		
		This Year	Last Year	Average
KLAMATH WATERSHEDS				
Clear Lake	440.2	398.2	415.3	242.2
Gerber	94.0	85.8	92.2	61.9
Upper Klamath Lake	584.0	559.4	553.0	538.3
LAKE COUNTY, GOOSE LAKE WATERSHEDS				
Cottonwood	8.7	8.5	8.7	6.6*
Drews	63.0	61.0	63.0	52.8
Thompson Valley	19.5	6		14.7
*Average for years of record (in base period) after reconstruction.				
 <				

JUNE 1, 1972

SNOW	THIS YEAR			PAST REC.	
	Date of Survey	Snow Depth (In.)	Water Cont (In.)	Water Content (inches)	
				Last Yr.	Ave. i
DRAINAGE BASIN and/or SNOW COURSE					

[illegible]

SNOW	THIS YEAR			PAST REC.	
	Date of Survey	Snow Depth (In.)	Water Cont. (In.)	Water Content (inches)	
				Last Yr.	Ave.†
DRAINAGE BASIN and/or SNOW COURSE					

[illegible]

(a) Assuming normal meteorological conditions. (b) No report. (c) Not scheduled. (d) Corrected to natural flow. (e) Aerial snow depth gage, water content estimated. (f) Nearest current data. (g) Partly estimated. (h) 1953-67 adjusted average. (i) 1953-67, 15 year average. (j) Telephonic report - data not confirmed. (k) Data from PP&L Co. or USBK records. (m) Average of 5 or more years in base period.

BASIC DATA SUPPLEMENT 2

JUNE 1, 1972

SOIL MOISTURE

DRAINAGE BASIN and/or STATION		Profile (Inches)		Date of Survey	Soil Moisture (Inches)		
Name	Elevation	Depth	Capacity		This Year	Last Year	Average <i>i</i>
OWYHEE, MALHEUR WATERSHEDS							
Bear Creek (Nev.)	7800	72	16.8	c			
Big Bend (Nev.)	6700	48	16.7	c			
Blue Mountain Spring	5900	42	16.9	6/5	10.6	11.8	13.3
Crane Prairie	5375	48	18.2	6/5	17.6	18.2	17.8
Folly Farm	4450	30	12.5	c			
Jack Creek, Lower (Nev.)	6800	48	8.6	c		7.5 ^f	- -
Jordan Valley	4390	48	19.3	b		- -	16.3
Mud Flat (Ida.)	5500	48	12.8	c			
Rodeo Flat (Nev.)	6800	42	11.0	c			
Taylor Canyon (Nev.)	6200	48	15.1	c			
Triangle (Ida.)	5150	48	16.6	c			
BURNT, POWDER, PINE, GRANDE RONDE, IMNAHA WATERSHEDS							
Blue Mountain Summit	5100	36	16.8	5/31	16.3	16.1	14.9
Dooley Mountain	5430	36	9.2	5/31	5.2	7.1	5.5
Emigrant Springs	3925	48	22.3	5/31	20.8	20.9	20.0
Ladd Summit	3730	48	18.9	5/31	13.4	12.6	11.5
Moss Springs	5850	36	25.8	Late Report		15.8	- -
Tollgate	5070	48	23.6	5/25	18.3	18.7	19.7
UMATILLA, WALLA WALLA, WILLOW, ROCK, LOWER JOHN DAY WATERSHEDS							
Battle Mountain Summit	4340	48	13.8	5/31	13.7	13.2	12.5
Emigrant Springs	3925	48	22.3	5/31	20.8	20.9	20.0
Tollgate	5070	48	23.6	5/25	18.3	18.7	19.7
UPPER JOHN DAY WATERSHEDS							
Battle Mountain Summit	4340	48	13.8	5/31	13.7	13.2	12.5
Beech Creek	4800	48	21.3	6/5	19.0	16.1	16.0
Blue Mountain Spring	5900	42	16.9	6/5	10.6	11.8	13.3
Blue Mountain Summit	5100	36	16.8	5/31	16.3	16.1	14.9
Derr	5670	24	9.0	b		8.3	- -
Marks Creek	4540	36	14.1	5/29	13.0	13.5	13.2
Snow Mountain	6300	48	16.7	6/6	15.7	16.2	15.5
Starr Ridge	5150	36	10.6	6/5	10.5	10.5	10.3
Williams Ranch	4500	42	17.9	6/5	15.8	16.2	15.5
UPPER DESCHUTES, CROOKED WATERSHEDS							
Derr	5670	24	9.0	b		8.3	- -
Marks Creek	4540	36	14.1	5/29	13.0	13.5	13.2
Snow Mountain	6300	48	16.7	6/6	15.7	16.2	15.5
HOOD, MILE CREEKS, LOWER DESCHUTES WATERSHEDS							
Cooper Spur	3490	72	26.4	6/1	14.2	14.4	- -
KLAMATH WATERSHEDS							
Quartz Mountain	5230	48	15.3	6/5	10.0	10.5	9.5

BASIC DATA SUPPLEMENT 2

JUNE 1, 1972

SOIL MOISTURE

DRAINAGE BASIN and/or STATION		Profile (Inches)		Date of Survey	Soil Moisture (Inches)		
Name	Elevation	Depth	Capacity		This Year	Last Year	Average i
LAKE COUNTY, GOOSE LAKE WATERSHEDS							
Camas Creek	5720	42	14.5	Late	Report	12.7	12.6
Quartz Mountain	5230	48	15.3	6/5	10.0	10.5	9.5
HARNEY BASIN WATERSHEDS							
Blue Mountain Spring	5900	42	16.9	6/5	10.6	11.8	13.3
Fish Creek	7900	48	15.0	b			
Folly Farm	4450	30	12.5	c			
Silvies	6900	48	16.4	b			
Snow Mountain	6300	48	16.7	6/6	15.7	16.2	15.5
Starr Ridge	5150	36	10.6	6/5	10.5	10.5	10.3
Willow-Bald	5000	24	6.6	6/6	5.6	6.5	5.3

(a) Assuming normal meteorological conditions. (b) No report. (c) Not scheduled. (d) Corrected to natural flow. (e) Aerial snow depth gage, water content estimated. (f) Nearest current data. (g) Partly estimated. (h) 1953-67 adjusted average. (i) 1953-67, 15 year average. (j) Telephonic report - data not confirmed. (k) Data from PP&L Co. or USBR records. (m) Average for 5 or more years in base period.

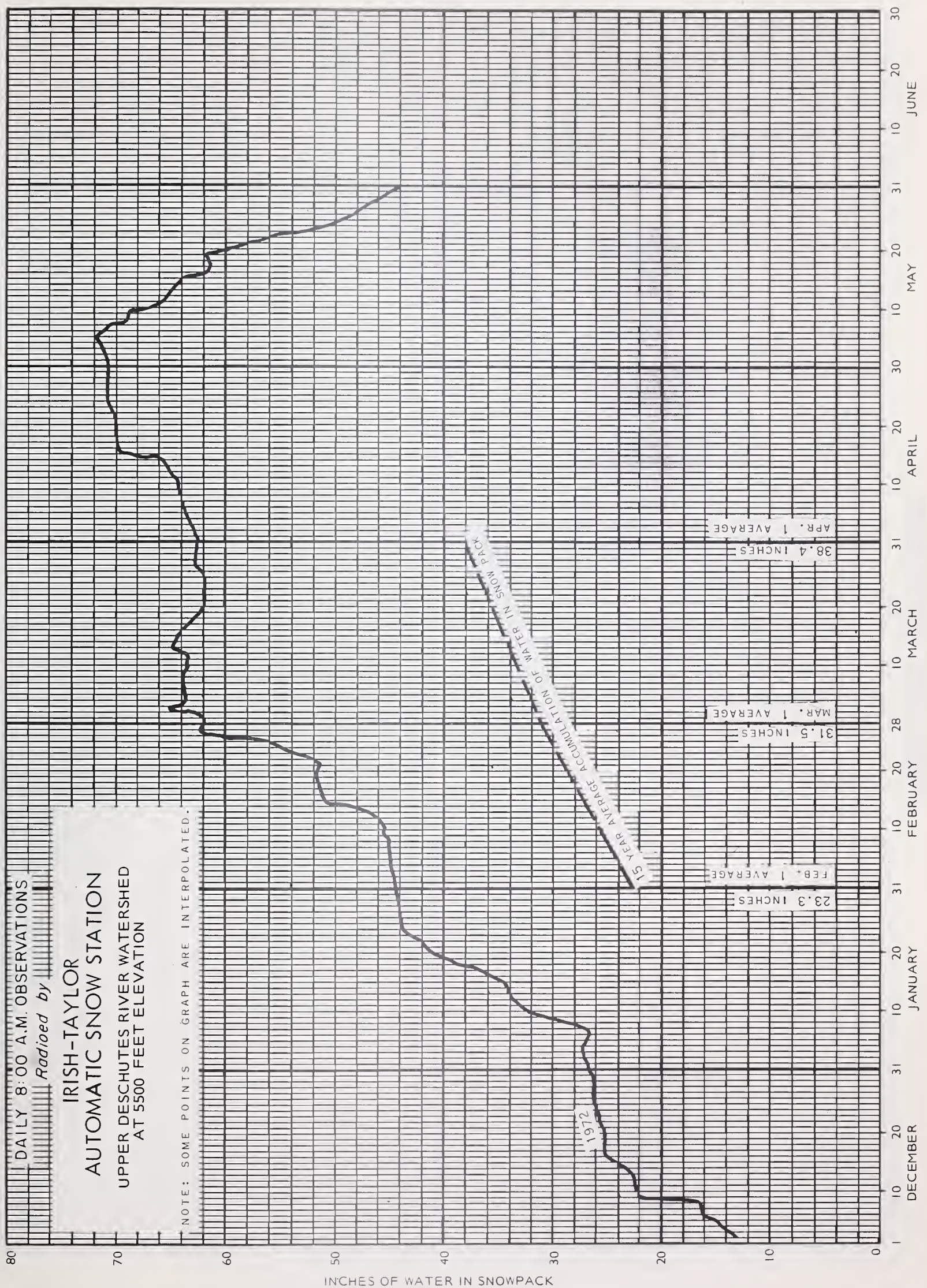
JUNE 1, 1972

PRECIPITATION (Inches)

		CURRENT INFORMATION		PAST RECORD	
DRAINAGE BASIN and PRECIPITATION GAGE LOCATION	ELEVATION	Date of Reading	Precipitation	Last Year	Average [†]
(No Data)					

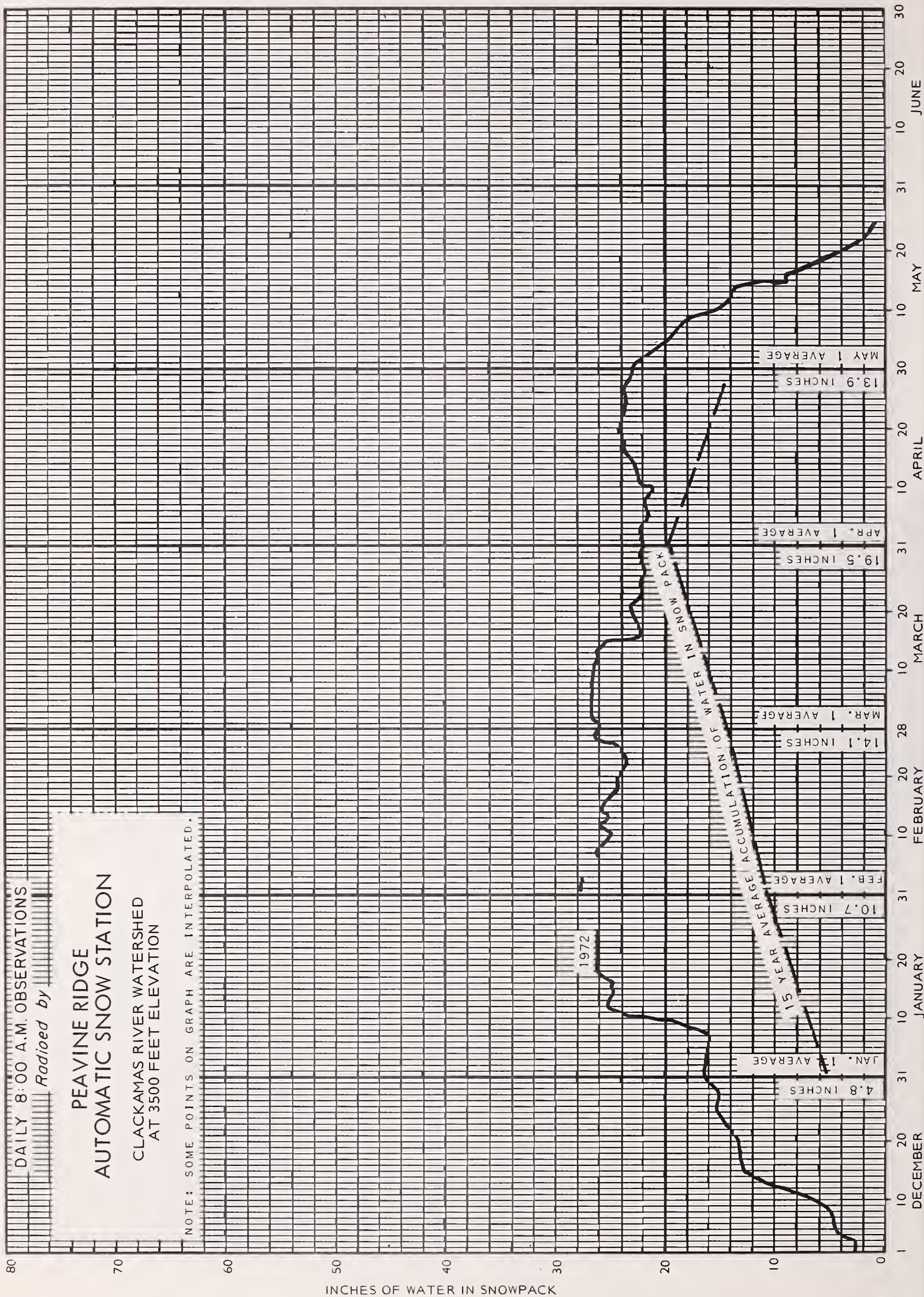
BASIC DATA SUPPLEMENT 4

U.S.D.A. SOIL CONSERVATION SERVICE DAILY RADIO REPORTS BY AUTOMATIC SNOW MEASURING STATION



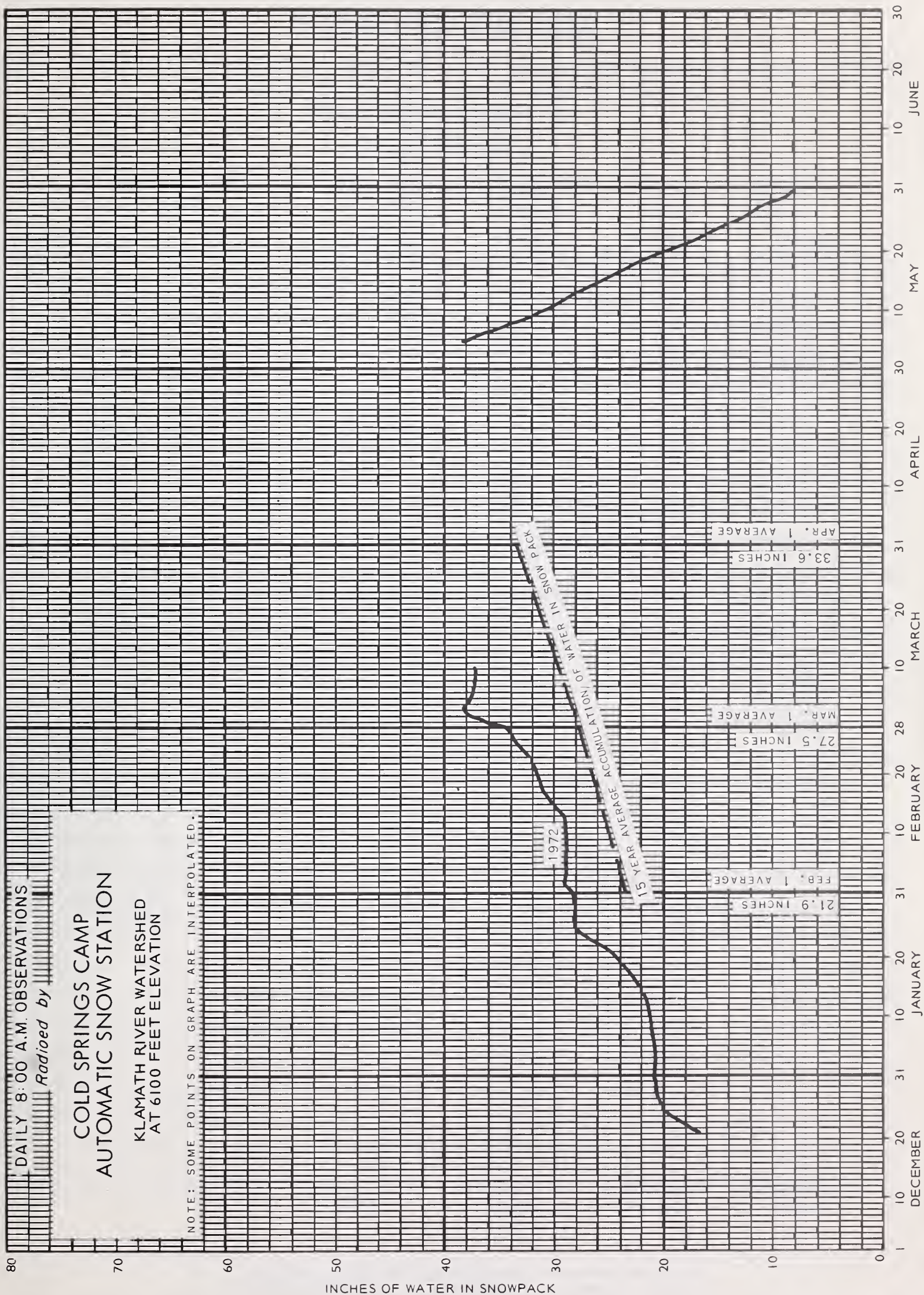
BASIC DATA SUPPLEMENT 4

U.S.D.A. SOIL CONSERVATION SERVICE DAILY RADIO REPORTS BY AUTOMATIC SNOW MEASURING STATION



BASIC DATA SUPPLEMENT 4

U.S.D.A. SOIL CONSERVATION SERVICE DAILY RADIO REPORTS BY AUTOMATIC SNOW MEASURING STATION



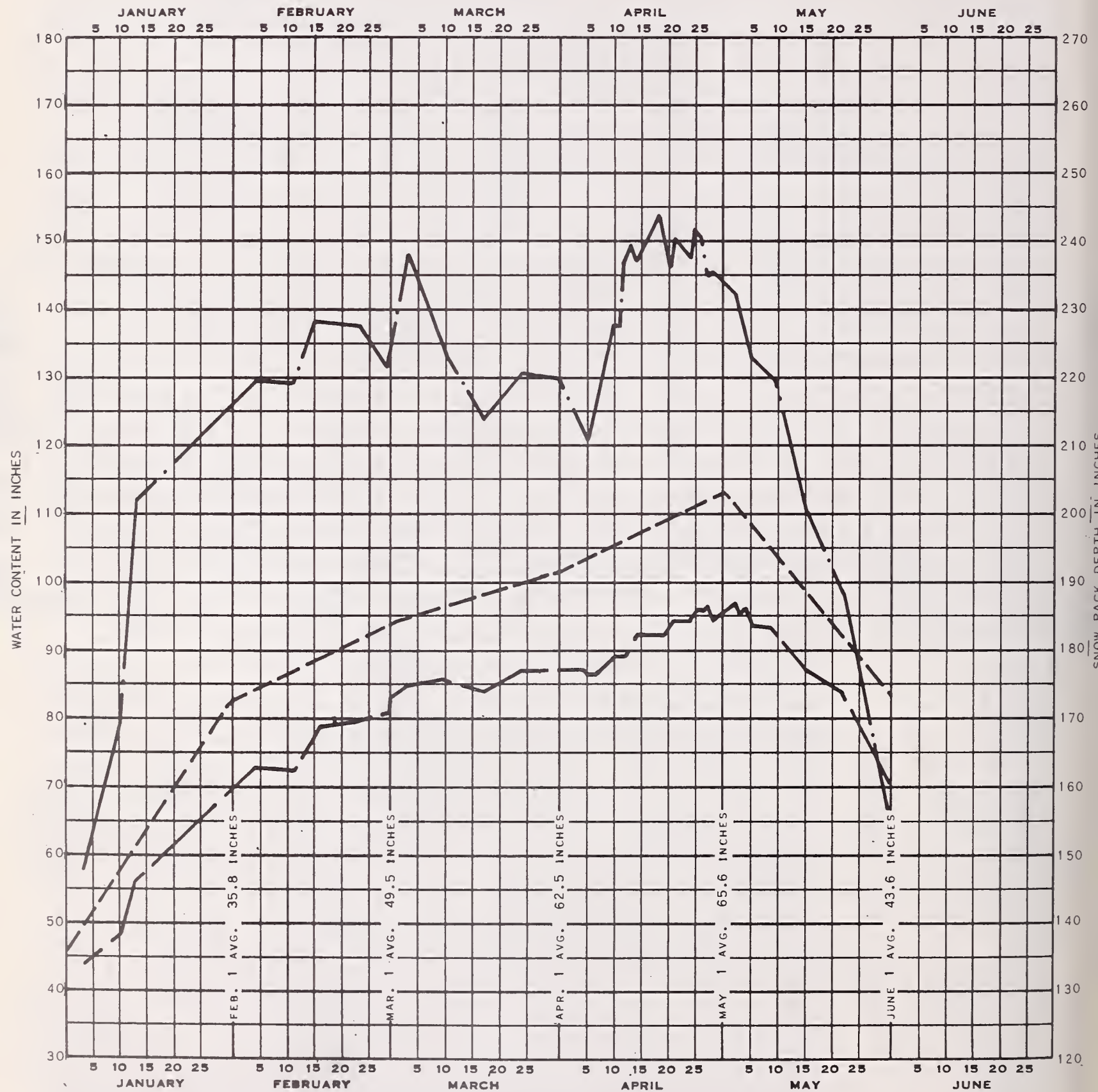
BASIC DATA SUPPLEMENT 4

U.S.D.A. SOIL CONSERVATION SERVICE DAILY RADIO REPORTS BY AUTOMATIC SNOW MEASURING STATION

MT. HOOD ISOTOPIC GAGE

MT. HOOD TEST SITE
AT 5555 FEET ELEVATION

NOTE: MONTHLY AVERAGES ARE (1953-1967)
AT PHLOX POINT SNOW COURSE



• ——— • SNOW DEPTH @ ISOTOPIC GAGE SITE
————— WATER CONTENT @ ISOTOPIC GAGE SITE
- - - - - WATER CONTENT @ PHLOX POINT SNOW COURSE

Appendix 1

PREVIOUSLY UNPUBLISHED OREGON SNOW SURVEY DATA 1971-72 Season

<u>SNOW COURSE Name</u>	<u>No.</u>	<u>Date</u>	<u>Depth (In.)</u>	<u>Water (In.)</u>
Blue Mtn. Camp	18D16	11/24/71	8	3.4
Cascade Summit	22F3	1/13/72	94	28.2
		2/11/72	90	34.7
		3/13/72	92	39.9
		4/14/72	94	38.5
		5/12/72	62	29.9
Champion	22F9	1/14/72	98	33.4
		2/15/72	86	38.1
		3/15/72	71	35.6
		4/14/72	86	36.2
Chemult	21F11	11/29/72	16	1.1
Cooper Spur*	21D25	11/17/71	T	T
		12/2/71	12	3.4
Cooper Spur Alternate	21D25	12/14/71	37	7.2
		1/14/72	41	13.3
		2/15/72	36	13.2
		3/15/72	22	8.9
		4/17/72	8	2.7
Detroit City	22E1	1/17/72	T	T
		2/16/72	0	0.0
		3/15/72	0	0.0
		4/15/72	0	0.0
Detroit Dam	22E2	1/17/72	0	0.0
		2/16/72	0	0.0
		3/15/72	0	0.0
		4/15/72	0	0.0
Fish Creek (Aerial)	18G2A	3/7/72	87	30.4
		3/29/72	84	34.4
Fourmile Lake	22G12	3/5/72	68	29.8
Gerber	21G4	10/1/71	T	T
		12/1/71	4	0.5
		12/15/71	11	1.8
		1/14/72	10	2.8
		2/15/72	8	3.4

*Discontinued

SNOW COURSE <u>Name</u>	<u>No.</u>	<u>Date</u>	Depth <u>(In.)</u>	Water <u>(In.)</u>
Golden Curry Creek	22F10	1/14/72	36	12.0
		2/15/72	28	10.8
		3/15/72	T	T
		4/15/72	10	1.6
Hogg Pass	21E6	1/17/72	119	40.0
		2/16/72	129	57.8
		3/15/72	134	64.5
		4/15/72	146	63.6
Lake of the Woods	22G15	1/14/72	36	11.0
		2/15/72	38	13.7
		3/12/72	29	11.8
		4/13/72	20	6.5
Layng Creek	22F13	1/14/72	0	0.0
		2/15/72	0	0.0
		3/15/72	0	0.0
		4/15/72	0	0.0
Lookout Point Dam	22F8	1/13/72	0	0.0
		2/11/72	0	0.0
		3/13/72	0	0.0
		4/14/72	0	0.0
		5/12/72	0	0.0
Lund Park	22F12	1/14/72	T	T
		2/15/72	0	0.0
		3/15/72	0	0.0
		4/15/72	0	0.0
Marion Forks	21E4	1/17/72	40	13.4
		2/16/72	39	15.1
		3/15/72	37	16.1
		4/14/72	33	13.3
McCredie Springs	22F6	1/13/72	9	2.8
		2/11/72	T	T
		3/13/72	0	0.0
		4/14/72	0	0.0
		5/12/72	0	0.0
Mill City	22E3	1/17/72	0	0.0
		2/16/72	0	0.0
		3/15/72	0	0.0
		4/14/72	0	0.0

SNOW COURSE <u>Name</u>	<u>No.</u>	<u>Date</u>	Depth <u>(In.)</u>	Water <u>(In.)</u>
Oakridge	22F7	1/13/72	0	0.0
		2/11/72	0	0.0
		3/13/72	0	0.0
		4/14/72	0	0.0
		5/12/72	0	0.0
Parkdale	21D23	12/2/71	T	T
		12/16/71	5	1.3
		11/14/72	T	T
		2/15/72	0	0.0
Quartz Mountain	20G6	1/14/72	20	5.1
		2/15/72	25	8.4
		3/17/72	0	0.0
		4/13/72	5	1.2
Quartz Mtn. (Ext.)	20G6	1/14/72	18	5.1
		2/15/72	25	8.3
		3/17/72	0	0.0
		4/13/72	6	1.2
Railroad Overpass	22F5	1/13/72	20	6.3
		2/11/72	7	3.5
		3/13/72	0	0.0
		4/14/72	0	0.0
		5/12/72	0	0.0
Saddle Mountain	23D1	1/19/72	66	28.2
		2/14/72	61	24.8
		3/15/72	33	16.7
		4/13/72	49	15.2
Salt Creek Falls	22F4	1/13/72	64	18.3
		2/11/72	53	19.4
		3/13/72	46	20.1
		4/14/72	51	19.0
		5/12/72	21	10.7
Santiam Junction	21E5	1/17/72	93	30.0
		2/16/72	82	38.2
		3/15/72	77	36.8
		4/14/72	73	29.9
Seine Creek	23D2	1/17/72	30	10.2
		2/14/72	17	6.8
		3/15/72	0	0.0

<u>SNOW COURSE Name</u>	<u>No.</u>	<u>Date</u>	<u>Depth (In.)</u>	<u>Water (In.)</u>
Silvies (Aerial)	18G1A	3/7/72	36	12.6
		3/29/72	36	16.6
Siskiyou Summit	22G20	1/13/72	22	6.6
		2/14/72	17	6.2
		3/14/72	0	0.0
		4/14/72	4	0.9
Siskiyou Sum. Alternate	22G20	1/13/72	24	7.4
		2/14/72	16	5.9
		3/14/72	0	0.0
		4/14/72	5	1.1
Strawberry (Aerial)	20G9A	1/28/72	42	10.5
		2/25/72	34	11.9
		2/29/72	26	9.1
		3/29/72	6	2.3
Summer Rim (Aerial)	20G2A	2/25/72	54	18.3
		3/29/72	34	13.6
Switchback	21D28	1/13/72	48	15.6
Tollgate	18D3	11/24/72	17	4.5
Umbrella Falls	21D30	10/31/71	22	4.5
		12/2/71	68	20.0
Upper Valley	21D24	12/2/72	T	T
		12/16/72	16	3.4
		1/14/72	14	4.5
		2/15/72	T	T
Valsetz Summit	23E3	4/27/72	T	T
Weaver Creek	22F11	1/14/72	9	3.4
		2/15/72	T	T
		3/15/72	0	0.0
		4/14/72	T	T
Weston Mountain	18D17	11/24/71	0	0.0
Whitewater Bridge	21E3	1/17/72	26	8.6
		2/16/72	22	8.2
		3/15/72	7	3.4
		4/15/72	T	T

PP&L SNOW COURSES

<u>Name</u>	<u>No.</u>	<u>Date</u>	<u>Depth (In.)</u>	<u>Water (In.)</u>
Crystal	4	1/14/72	23	6.0
		2/13/72	21	10.0
		3/14/72	0	0.0
Fort Klamath	5	1/15/72	12	3.4
		2/15/72	6	2.3
		3/15/72	0	0.0
Harriman	8	1/15/72	21	5.9
		2/15/72	17	6.1
		3/15/72	0	0.0
Kirk	6	1/15/72	20	6.1
		2/15/72	18	6.4

SOIL MOISTURE
PREVIOUSLY UNPUBLISHED

<u>SOIL MOISTURE STATION Name</u>	<u>No. No.</u>	<u>Date Date</u>	<u>SOIL MOISTURE SOIL MOISTURE This Year</u>
Battle Mountain Summit	18D12	8/30/71	9.0
		11/1/71	10.0
		12/1/71	11.8
Beech Creek	19E2	7/1/71	14.5
		8/2/71	9.6
		8/31/71	7.4
		11/1/71	7.2
		11/30/71	8.2
Blue Mountain Springs	18E16	7/1/71	10.9
		8/2/71	6.1
		8/31/71	5.0
		11/1/71	5.3
		11/30/71	5.6
Blue Mountain Summit	18E13	10/28/71	8.5
		11/30/71	8.9
Camas Creek	20G8	8/30/71	8.3
		11/30/71	12.0
Cooper Spur	20D25	7/6/71	13.8
		7/30/71	13.6
		8/31/71	7.8

SOIL MOISTURE STATION Name	No.	Date	SOIL MOISTURE This Year
Cooper Spur (Cont'd.)	20D25	11/2/71	6.7
		11/17/71	9.7
		11/30/71	12.9
		12/15/71	14.1
		1/14/72	14.2
		2/15/72	14.1
		3/15/72	14.4
		4/17/72	14.2
Crane Prairie	18D19	7/1/71	17.8
		8/2/71	15.7
		8/31/71	14.6
		11/1/71	14.6
		12/1/71	14.6
Dooley Mountain	17E1	10/28/71	2.3
		11/30/71	2.5
Emigrant Springs	18D4	8/31/71	17.6
		10/27/71	18.7
		12/1/71	20.8
Fish Creek	18G2	11/11/71	9.4
Ladd Summit	17D12	11/4/71	9.2
		12/1/71	10.2
Marks Creek	20E1	11/1/71	9.1
		1/3/72	10.4
Moss Springs	17D6	11/4/71	13.7
Quartz Mountain	20G6	11/29/71	7.0
Silvies	18G1	11/11/71	13.7
Snow Mountain	19F1	11/8/71	11.1
Starr Ridge	19E7	7/1/71	8.8
		8/2/71	7.6
		8/31/71	7.2
		11/1/71	7.1
		12/1/71	8.2
Tollgate	18D3	10/27/71	13.6
		11/24/71	14.0

SOIL MOISTURE STATION <u>Name</u>	<u>No.</u>	<u>Date</u>	SOIL MOISTURE <u>This Year</u>
Williams Ranch	18E25	7/1/71	15.8
		8/2/71	15.5
		8/31/71	15.4
		11/1/71	15.1
		12/1/71	16.7
Willow-Bald	19F4	11/8/71	4.8
		11/29/71	4.3

ERRATA: 1972 SNOW MEASUREMENTS PUBLISHED IN ERROR

SNOW COURSE <u>Name</u>	<u>No.</u>	<u>Date</u>	Depth <u>(In.)</u>	Water <u>(In.)</u>
Aneroid Lake #1	17D1			
Previously Published		2/1/72	92	31.0
Correct Data		2/1/72	90	31.0
Big Sheep (Aerial)	17D14			
Previously Published		3/1/72	69	26.2
Correct Data		3/1/72	69	27.6
Blue Mtn. Springs Pillow	18E16			
Previously Published		12/28/71		8.7
Correct Data		12/28/71		7.9
Buck Pasture (Aerial)	18F6			
Previously Published		2/2/72	10	2.1
Correct Data		2/2/72	10	2.0
Dead Horse Grade	21E8			
Previously Published		1/30/72	73	43.7
Correct Data		1/30/72	73	26.7
Dismal Swamp (Cal.-Aerial)				
Previously Published	20H3a	1/24/72	51	12.7
Correct Data		1/24/72	51	15.3
Fish Creek (Aerial)	18G2A			
Previously Published		2/2/72	69	23.4
Correct Data		2/2/72	75	25.5
Gerber	21G4			
Previously Published		2/1/72	11	3.5
Correct Data		2/1/72	11	3.5
		2/1/72	11	3.2

SNOW COURSE <u>Name</u>	<u>No.</u>	<u>Date</u>	Depth <u>(In.)</u>	Water <u>(In.)</u>
Hyde Pasture (Aerial)	16G5	2/2/72	29	
Previously Published		2/2/72	29	7.8
Correct Data		2/2/72	34	9.2
Silver City (Aerial)	16F3A			
Previously Published		2/2/72	57	19.3
Correct Data		2/2/72	60	20.4
Silvies (Aerial)	18G1			
Previously Published		2/2/72	33	9.9
Correct Data		2/2/72	36	10.8
Strawberry	20G9			
Previously Published		3/7/72	28	11.6
Correct Data		3/7/72	28	11.7
Switchback	21D28			
Previously Published		1/31/72	40	16.2
Correct Data		1/31/72	48	16.2

ERRATA: 1972 SOIL MOISTURE MEASUREMENTS PUBLISHED IN ERROR

SOIL MOISTURE STATION <u>Name</u>	<u>No.</u>	<u>Date</u>	SOIL MOISTURE <u>This Year</u>
Blue Mountain Summit	18E13		
Previously Published		1/27/72	10.6
Correct Data		1/27/72	9.1

Appendix 2

SNOW SURVEYS AT RADIO TELEMETRY SITES for Calibration Purposes

TELEMETRY SITE <u>Name</u>	<u>No.</u>	<u>Date</u>	Depth <u>(In.)</u>	Water <u>(In.)</u>
Arbuckle Mountain	19D2	3/30/72	71	30.2
Blue Mountain Springs	18E16	12/28/71	32	8.5
		1/24/72	49	13.2
		2/25/72	44	15.5
		3/29/72	26	10.5
		4/26/72	14	7.0
Fish Creek	18G2	3/30/72	87	36.0
High Ridge	18D19	2/29/72	107	41.8
		3/24/72	98	42.8
		4/27/72	88	45.1
Irish-Taylor	21F6	3/1/72	131	48.7
		3/29/72	127	58.0
Silvies	18G1	2/27/72	70	27.2
Snow Mountain	19F1	1/28/72	55	15.2
		2/25/72	49	15.7
		3/31/72	38	14.3
Summer Rim	20G2	3/31/72	52	20.7
Three Creek	21E13	2/1/72	69	24.0
		2/25/72	81	25.0
		3/30/72	73	31.5
		4/26/72	71	32.3
Tipton	18E9	12/29/71	40	9.3
		1/27/72	46	14.3
		2/28/72	48	16.3
		3/30/72	43	16.8
		4/27/72	31	13.0

**FEDERAL-STATE-PRIVATE
COOPERATIVE SNOW SURVEYS**



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PROCUREMENT SECTION
CURRENT SERIAL RECORDS

WATER SUPPLY SUMMARY AND OUTLOOK FOR OREGON

Prepared by

U. S. DEPARTMENT of AGRICULTURE ★ SOIL CONSERVATION SERVICE

Collaborating with

OREGON STATE UNIVERSITY

and

STATE ENGINEER of OREGON

Data included in this report were obtained by the agencies named above in cooperation with other Federal, State and private organizations.

AS OF
OCT. 1, 1972

TO RECIPIENTS OF WATER SUPPLY OUTLOOK REPORTS:

Most of the usable water in western states originates as mountain snowfall. This snowfall accumulates during the winter and spring, several months before the snow melts and appears as streamflow. Since the runoff from precipitation as snow is delayed, estimates of snowmelt runoff can be made well in advance of its occurrence. Streamflow forecasts published in this report are based principally on measurement of the water equivalent of the mountain snowpack.

Forecasts become more accurate as more of the data affecting runoff are measured. All forecasts assume that climatic factors during the remainder of the snow accumulation and melt season will interact with a resultant average effect on runoff. Early season forecasts are therefore subject to a greater change than those made on later dates.

The snow course measurement is obtained by sampling snow depth and water equivalent at surveyed and marked locations in mountain areas. A total of about ten samples are taken at each location. The average of these are reported as snow depth and water equivalent. These measurements are repeated in the same location near the same dates each year.

Snow surveys are made monthly or semi-monthly from January 1 through June 1 in most states. There are about 1900 snow courses in Western United States and in the Columbia Basin in British Columbia. Networks of automatic snow water equivalent and related data sensing devices, along with radio telemetry are expanding and will provide a continuous record of snow water and other parameters of key locations.

Detailed data on snow course and soil moisture measurements are presented in state and local reports. Other data on reservoir storage, summaries of precipitation, current streamflow, and soil moisture conditions at valley elevations are also included. The report for Western United States presents a broad picture of water supply outlook conditions, including selected streamflow forecasts, summary of snow accumulation to date, and storage in larger reservoirs.

Snow survey and soil moisture data for the period of record are published by the Soil Conservation Service by states about every five years. Data for the current year is summarized in a West-wide basic data summary and published about October 1 of each year.

COVER PHOTO NUMBER ORC 221-3

PUBLISHED BY SOIL CONSERVATION SERVICE

The Soil Conservation Service publishes reports following the principal snow survey dates from January 1 through June 1 in cooperation with state water administrators, agricultural experiment stations and others. Copies of the reports for Western United States and all state reports may be obtained from Soil Conservation Service, Western Regional Technical Service Center, Room 209, 701 N. W. Glisan, Portland, Oregon 97209.

Copies of state and local reports may also be obtained from state offices of the Soil Conservation Service in the following states:

STATE	ADDRESS
Alaska	P. O. Box "F", Palmer, Alaska 99645
Arizona	6029 Federal Building, Phoenix, Arizona 85025
Colorado (N. Mex.)	P. O. Box 17107, Denver, Colorado 80217
Idaho	Room 345, 304 N. 8th. St., Boise, Idaho 83702
Montana	P. O. Box 970, Bozeman, Montana 59715
Nevada	P. O. Box 4850, Reno Nevada 89505
Oregon	1218 S. W. Washington St., Portland, Oregon 97205
Utah	4012 Federal Bldg., 125 South State St., Salt Lake City, Utah 84111
Washington	360 U.S. Court House, Spokane, Washington 99201
Wyoming	P. O. Box 2440, Casper, Wyoming 82601

PUBLISHED BY OTHER AGENCIES

Water Supply Outlook reports prepared by other agencies include a report for California by the Water Supply Forecast and Snow Surveys Unit, California Department of Water Resources, P. O. Box 388, Sacramento, California 95802 --- and for British Columbia by the Department of Lands, Forests and Water Resources, Water Resources Service, Parliament Building, Victoria, British Columbia



WATER SUPPLY SUMMARY AND OUTLOOK FOR OREGON

and
FEDERAL - STATE - PRIVATE COOPERATIVE SNOW SURVEYS

Issued

OCTOBER 8, 1972

Issued by

KENNETH E. GRANT

ADMINISTRATOR
SOIL CONSERVATION SERVICE
WASHINGTON, D C

|||||

Released by

A.J. WEBBER

STATE CONSERVATIONIST
SOIL CONSERVATION SERVICE
PORTLAND OREGON

In Cooperation with

G. BURTON WOOD

DIRECTOR
OREGON AGRICULTURAL
EXPERIMENT STATION

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Report prepared by

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WATER SUPPLY SUMMARY AND OUTLOOK FOR OREGON

October 1, 1972

Oregon water users have just completed another season with adequate to above normal water supplies. This has been true three out of the last four years. Some irrigators, dependent on direct diversion, experienced some late season shortages as streams dropped off in volume very rapidly in July and August.

This past winter another much-above-average snowpack covered most of the mountains in the state. Record measurements at some snow courses were recorded. Warm weather in March caused much of the snow to melt and run off early. Volume flows were 2 to 4 times normal for the month. Snowmelt runoff continued above average in April and May and then started to drop in June. Lack of precipitation and extremely hot weather during the following two months resulted in below average summer flows.

Soil moisture is currently near average throughout the state. In a few areas soils dried out from the hot August temperature but are starting to return to normal conditions.

Eastern Oregon range conditions generally started out very well but ended up rather poorly due to the dry, hot weather in August. Forage and most crop production was generally good. Heavy late frosts were experienced in the Medford and Hood River areas, resulting in a below normal fruit crop.

Representative streamflow for this past spring and summer, expressed as per cent of average, versus the April 1 forecasts is as follows:

	<u>Period</u>	<u>Obs. Flow</u>	<u>April 1 Forecast</u>
Owyhee net Inflow	April-July	120%	140%
Grande Ronde at La Grande	April-July	117%	110%
Willamette, Mid. Fk. blw. N. Fk.	April-July	123%	126%
Rogue at Raygold	April-July	119%	96%
Upper Klamath Lake	April-Sept.	97%	106%
Chewaucan near Paisley	April-July	98%	92%

Carryover storage in the major irrigation reservoirs is again very good as it has been for the past several years. Stored volumes are slightly below what they were last year at this time. Twenty-four reservoirs contained 1,818,100 acre feet of water on October 1. This is 147% of the average amount of 1,235,200 acre feet.

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STATUS OF RESERVOIR STORAGE, OCTOBER 1, 1972

RESERVOIR	USABLE CAPACITY (Thous. A.F.)	THOUSANDS ACRE FEET IN STORAGE ABOUT OCT. 1 15-Year Average		
		1972	1971	1953-67
<u>UPPER COLUMBIA DRAINAGE</u>				
Antelope	55.0	6.7	- -	6.9
Owyhee	715.0	447.2	471.3	281.9
Beulah Reservoir	60.0	14.8	15.2	8.1
Bully Creek	30.0	4.7	6.5	6.4
Warm Springs	191.0	78.0	99.6	45.6
Phillips Lake	73.5	43.0	45.9	- -
Unity	25.2	2.0	1.7	2.7
Wallowa Lake	37.5	10.7	19.4	15.4
<u>LOWER COLUMBIA DRAINAGE</u>				
Cold Springs	50.0	2.6	4.1	2.6
McKay	73.8	9.2	16.8	6.1
Ochoco	47.5	24.1	26.4	15.0
Prineville	153.0	101.7	103.7	103.0
Crane Prairie	55.3	33.3	19.7	22.9
Crescent Lake	86.9	66.3	46.8	33.9
Wickiup	200.0	128.3	113.8	45.6
Cottage Grove	30.0	2.9	0.0	5.5
Cougar	155.2	76.6	85.9	- -
Detroit	299.9	175.0	198.8	193.0
Dorena	70.5	31.0	23.9	7.2
Fall Creek	115.0	29.1	20.5	- -
Fern Ridge	94.2	74.8	78.0	50.7
Foster	30.0	24.0	25.1	- -
Green Peter	270.0	108.6	125.1	- -
Hill Creek	200.0	89.2	102.2	124.7
Lookout Point	337.2	168.8	203.8	213.4
Timothy Lake	61.7	61.4	60.3	58.6
<u>WEST COAST DRAINAGE</u>				
Fourmile Lake	16.1	9.0	9.0	6.7
Fish Lake	8.0	7.0	5.8	2.4
Howard Prairie	60.0	49.4	50.5	33.6
Hyatt Prairie	16.1	7.9	12.4	7.9
Emigrant Lake	39.0	6.2	7.5	9.4
Upper Klamath	584.0	394.4	448.9	307.3
Gerber	94.0	45.9	55.6	27.1
Clear Lake	440.2	284.5	284.9	168.6
Cottonwood	8.7	0.0	0.6	0.4
Drews	63.0	29.5	36.4	24.0

SOIL MOISTURE as of October 1, 1972

DRAINAGE BASIN and/or STATION		Profile (Inches)		Date of Survey	Soil Moisture (Inches)		
Name	Elevation	Depth	Capacity		This Year	Last Year	Average
OWYHEE, MALHEUR WATERSHEDS							
Bear Creek (Nev.)	7800	72	16.8	c		- -	- -
Big Bend (Nev.)	6700	48	16.7	c		11.2	- -
Blue Mtn. Springs	5900	42	16.9	9/25	5.2	5.0	5.9
Crane Prairie	5375	48	18.2	9/27	14.5	14.7	14.6
Folly Farm	4450	30	12.5	c		- -	- -
Jack Creek, Lower (Nev.)	6800	48	8.6	c		5.1	- -
Jordan Valley	4390	48	19.3	10/3	15.9	- -	14.4
Mud Flat (Ida.)	5500	48	12.8	c		- -	- -
Rodeo Flat (Nev.)	6800	42	11.0	c		5.1	- -
Taylor Canyon (Nev.)	6200	48	15.1	c		7.8	- -
Triangle (Ida.)	5150	48	16.6	c		- -	- -
BURNT, POWDER, PINE, GRANDE RONDE, IMNAHA WATERSHEDS							
Blue Mtn. Summit	5100	36	16.8	9/26	8.3	8.3	7.7
Dooley Mountain	5430	36	9.2	9/26	2.2	2.7	3.0
Emigrant Springs	3925	48	22.3	9/28	16.0	18.0	12.9
Ladd Summit	3730	48	18.9	9/28	9.3	9.0	8.9
Moss Springs	5850	42	25.8	9/28	12.6	11.4	- -
Tollgate	5070	48	23.6	9/29	10.9	10.8	14.4
UMATILLA, WALLA WALLA, WILLOW, ROCK, LOWER JOHN DAY WATERSHEDS							
Battle Mtn. Summit	4340	48	13.8	9/28	9.9	10.7	9.3
Emigrant Springs	3925	48	22.3	9/28	16.0	18.0	12.9
Tollgate	5070	48	23.6	9/29	10.9	10.8	14.4
UPPER JOHN DAY WATERSHEDS							
Battle Mtn. Summit	4340	48	13.8	9/28	9.9	10.7	9.3
Beech Creek	4800	48	21.3	9/27	9.3	6.8	9.8
Blue Mountain Springs	5900	42	16.9	9/27	5.2	5.0	5.9
Blue Mountain Summit	5100	36	16.8	9/26	8.3	8.3	7.7
Derr	5670	24	9.0	c		- -	4.1
Marks Creek	4540	36	14.1	9/28	8.8	- -	9.0
Snow Mountain	6300	48	16.7	9/29	11.1	11.5	9.7
Starr Ridge	5150	36	10.6	9/27	7.2	7.2	7.3
Williams Ranch	4500	42	17.9	9/27	14.9	14.6	14.5
UPPER DESCHUTES, CROOKED WATERSHEDS							
Derr	5670	24	9.0	c		- -	4.1
Marks Creek	4540	36	14.1	9/28	8.8	- -	9.0
Snow Mountain	6300	48	16.7	9/29	11.1	11.5	9.7
HOOD, MILE CREEKS, LOWER DESCHUTES WATERSHEDS							
Cooper Spur	3490	72	26.4	9/29	6.4	6.3	- -
KLAMATH WATERSHEDS							
Quartz Mountain	5320	48	15.3	9/13	5.2	5.3	5.6
LAKE COUNTY, GOOSE LAKE WATERSHEDS							
Camas Creek	5720	42	14.5	10/3	8.7	8.2	8.8
Quartz Mountain	5320	48	15.3	9/13	5.2	5.3	5.6
HARNEY BASIN WATERSHEDS							
Blue Mountain Spring	5900	42	16.9	9/27	5.2	5.0	5.9
Fish Creek	7900	48	15.0	9/24	6.9	7.1	8.2
Folly Farm	4450	30	12.5	c		- -	- -
Silvies	6900	48	16.4	9/24	12.7	11.0	11.6
Snow Mountain	6300	48	16.7	9/29	11.1	11.5	9.7
Starr Ridge	5150	36	10.6	9/27	7.2	7.2	7.3
Willow-Bald	5000	24	6.6	9/29	3.6	4.2	3.4

The Following Organizations Cooperate in the Oregon Snow Survey Work

STATE

- Idaho Cooperative Snow Surveys
- Nevada Cooperative Snow Surveys
- Oregon State University
- Oregon State Engineer and Corps of State Watermasters
- Oregon State Highway Engineers
- Soil and Water Conservation Districts of Oregon

COUNTY

- Douglas County Water Resources Survey

FEDERAL

- Department of Agriculture
 - Cooperative Extension Service
 - Forest Service
 - Soil Conservation Service
- Department of Commerce
 - NOAA, National Weather Service
- Department of the Interior
 - Bonneville Power Administration
 - Bureau of Land Management
 - Bureau of Reclamation
 - Fish and Wildlife Service
 - Geological Survey
 - National Park Service
- Department of National Defense
 - Corps of Army Engineers

PUBLIC UTILITIES

- Pacific Power and Light Company
- Portland General Electric Company
- California-Pacific Utilities Company

MUNICIPALITIES

- City of Baker
- City of La Grande
- City of The Dalles
- City of Walla Walla

IRRIGATION DISTRICTS

- Arnold Irrigation District
- Associated Ditch Companies
- Burnt River Irrigation District
- Central Oregon Irrigation District
- East Fork Irrigation District
- Grants Pass Irrigation District
- Hood River Irrigation District
- Jordan Valley Irrigation District
- Juniper Flat Irrigation District
- Lakeview Water Users, Incorporated
- Medford Irrigation District
- Middle Fork Irrigation District
- North Board of Control - Owyhee Project
- North Unit Irrigation District
- Ochoco Irrigation District
- Rogue River Valley Irrigation District
- South Board of Control - Owyhee Project
- Squaw Creek Irrigation District
- Talent Irrigation District
- Tumalo Project
- Vale-Oregon Irrigation District
- Warm Springs Irrigation District

PRIVATE ORGANIZATIONS

- The Crag Rats, Hood River, Oregon

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